

Create Azure AI Studio

Azure OpenAI Service brings the generative AI models developed by OpenAI to the Azure platform, enabling you to develop powerful AI solutions that benefit from the security, scalability, and integration of services provided by the Azure cloud platform. In this exercise, you'll learn how to get started with Azure OpenAI by provisioning the service as an Azure resource and using Azure OpenAI Studio to deploy and explore OpenAI models.

Duration: 15 to 20 minutes

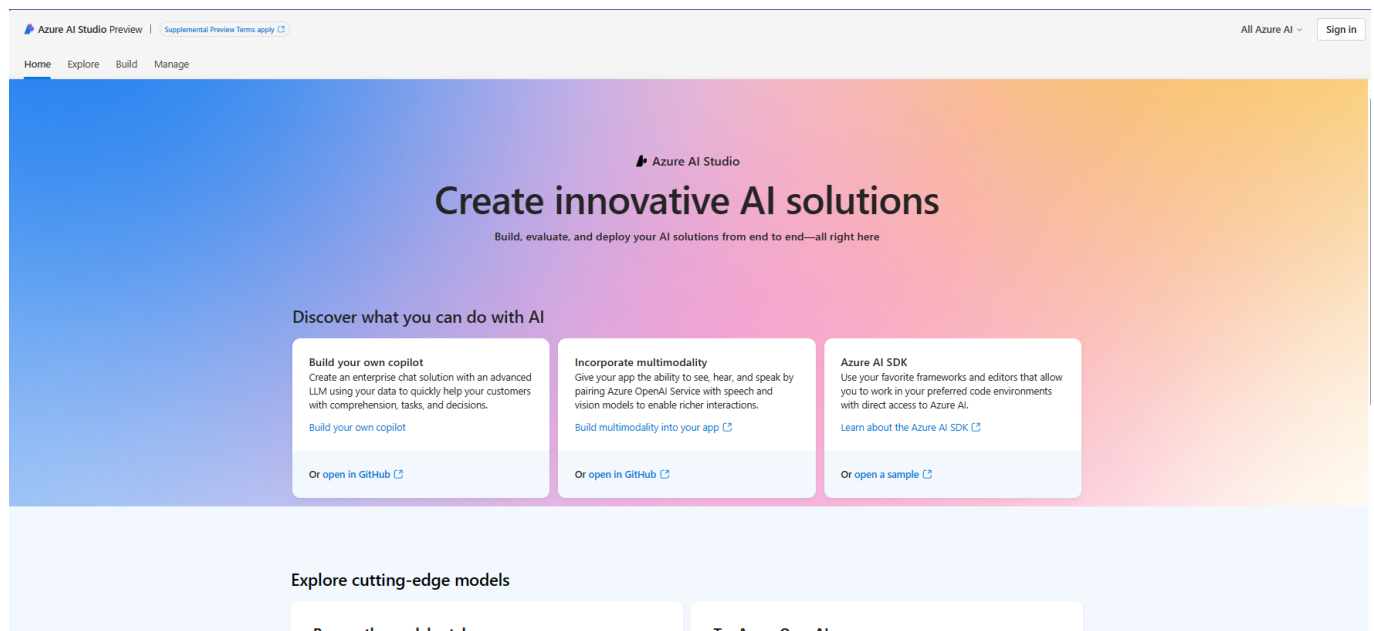
Before you start

You'll need an Azure account that is able to create services before you can continue.

Provision an Azure OpenAI resource

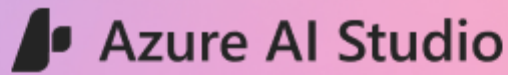
Navigate to Azure AI Portal <https://ai.azure.com/>.

You will see a page like this one:



Login with the credentials provided.

You might need to update the password.



std-000@adataanalytics.com

Update your password

You need to update your password because this is the first time you are signing in, or because your password has expired.

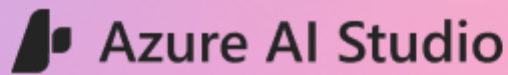
.....

.....

.....

Sign in

Skip MFA:



std-000@adataanalytics.com

Action Required

Your organisation requires additional security information. Follow the prompts to download and set up the Microsoft Authenticator app.

[Use a different account](#)

[Learn more about the Microsoft Authenticator app](#)

You have 14 days until this is required.

Ask later

Next

Stay signed in:

Azure AI Studio



std-000@adataanalytics.com

Stay signed in?

Do this to reduce the number of times you are asked to sign in.

☒ Don't show this again

No

Yes

Home Section

The home section provides shortcuts to creating new models or exploring existing projects.

Azure AI Studio Preview
Supplemental Preview Terms apply
All Azure AI

Home
Explore
Build
Manage

Welcome back to Azure AI Studio

Discover what you can do with AI

Build your own copilot

Create an enterprise chat solution with an advanced LLM using your data to quickly help your customers with comprehension, tasks, and decisions.

[Build your own copilot](#)

[Or open in GitHub](#)

Incorporate multimodality

Give your app the ability to see, hear, and speak by pairing Azure OpenAI Service with speech and vision models to enable richer interactions.

[Build multimodality into your app](#)

[Or open in GitHub](#)

Azure AI SDK

Use your favorite frameworks and editors that allow you to work in your preferred code environments with direct access to Azure AI.

[Learn about the Azure AI SDK](#)

[Or open a sample](#)

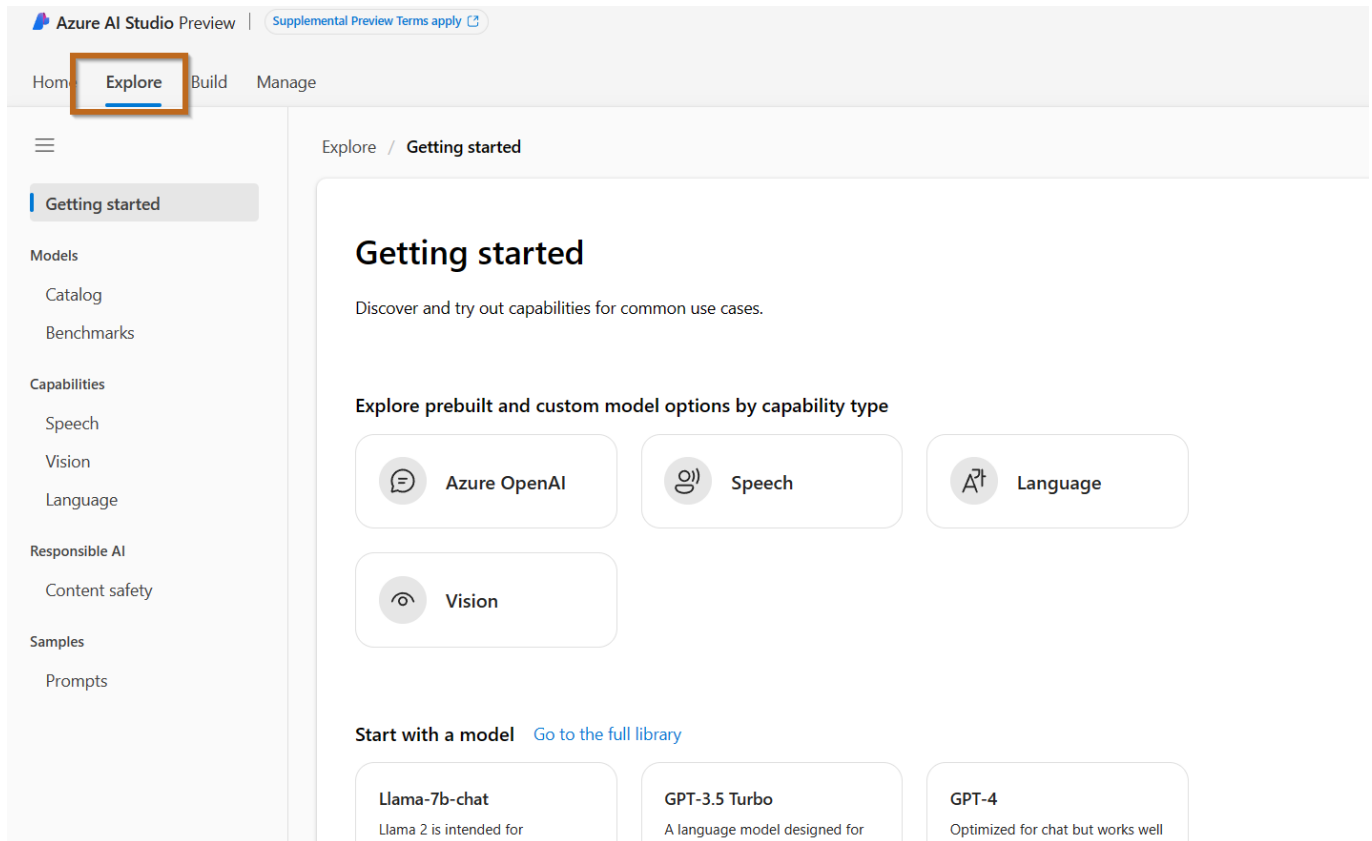
Recent projects

[View all](#)

Project	Azure AI resource	Description	Location	Created on
openaia-course-davida	aai-openaia-coursedavid-c		australiaeast	Nov 18, 2023 2:58 PM

Explore Section

Navigate to the Explore section, during this course will be using some of the options available within Azure AI Studio.



There are a few options available:

1. Getting Started

2. Model

- **Catalog:** you will find models available from OpenAI and other providers like Meta / NVIDIA and Hugging Face
- **Benchmarks:** Compare benchmarks across models and datasets available in the industry to assess which one meets your business scenario.

3. Capabilities

- **Speech:** Build voice-enabled apps confidently and quickly. Transcribe speech to text with high accuracy. Produce natural-sounding text-to-speech voices. Translate spoken audio and use speaker recognition during conversations.
- **Vision:** Give your apps the ability to read text, analyze images, and detect faces with technology like optical character recognition (OCR) and machine learning.
- **Language:** Build your apps with natural language understanding and generation with confidence and productivity. Interpret natural language with pre-built, task-optimized language models for immediate value and with customization capability to adapt to your business needs. Classify and summarize documents, get real-time translations, or integrate language into your bot experiences.

4. Responsible AI

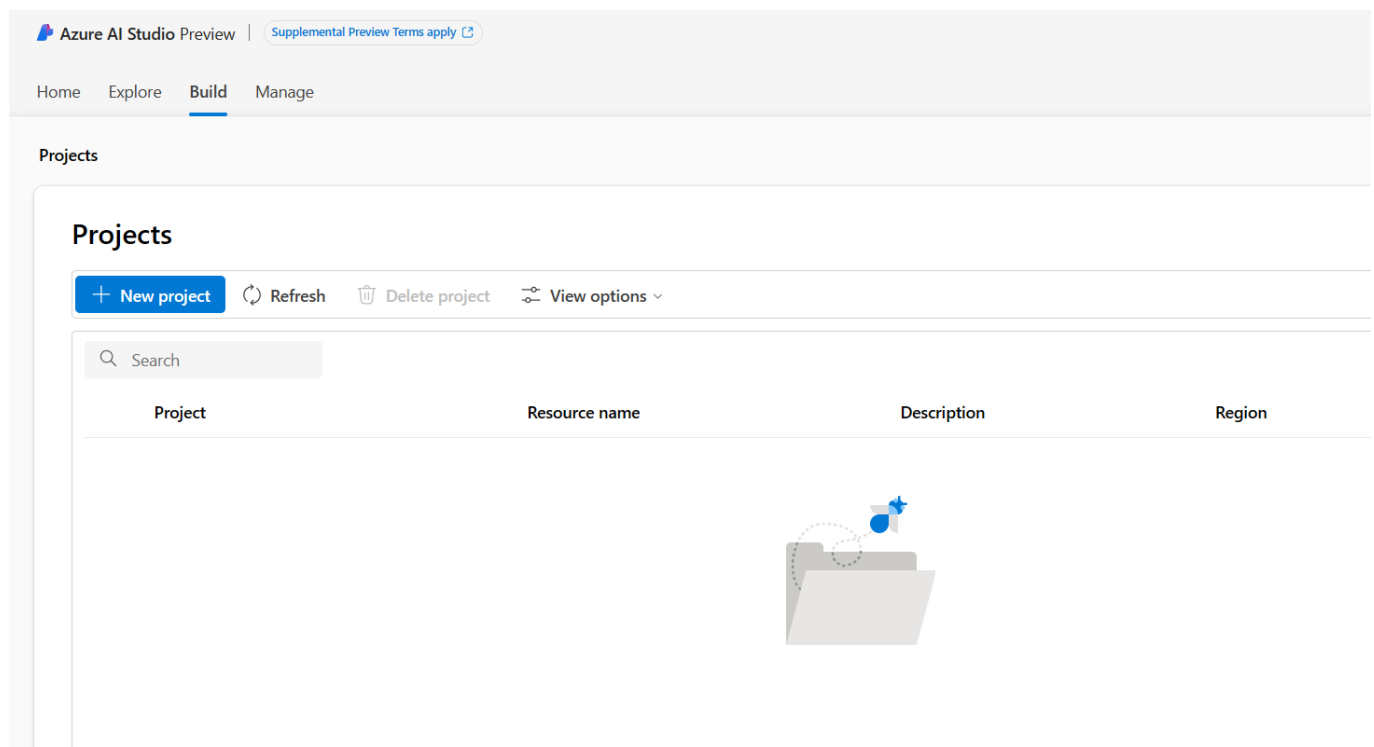
- **Content Safety:** Azure AI Content Safety detects harmful user-generated and AI-generated content in applications and services. Content Safety includes text and image APIs that allow you to detect material that is harmful.

5. Samples

- **Prompts:** Choose a sample prompt to see how it works or as a starting point for your project. Then customize it for your scenario and evaluate how it performs before integrating into your app.

Build Section

In this section, you will be able to organise solutions into projects. Let's create a project.



Create a New Project

Let's create a new project.

1. Make sure you select a meaningful name for the project.
2. An Azure AI Resource is required. The Azure AI Resource is hosted directly in your Azure Subscription.

When creating the Azure AI resource, I suggest following proper naming conventions. An Azure service will be created.

1. Create an **Azure OpenAI** resource with the following settings:
 - **Subscription:** An Azure subscription that has been approved for access to the Azure OpenAI service.
 - **Resource group:** **Expand the list **and choose the existing resource group you have access to, you will not have access to create a new one.
 - **Region:** Choose East US 2 or Australia East.
 - **Name:** A unique name of your choice. A good naming convention: **{Resource Type}{App Name}{Environment}{Region}{Instance}**
 - Example: **aai-openaicoursedavid-dev-aue**

Getting started

- ✓ Project details
- 2 Create an AI hub**
- 3 Review and finish

Create an AI hub for your projects

An AI hub is the collaboration environment for your team to share your project work, model endpoints, compute, (data) connections, and security settings. [Learn more](#)

Do you need to customize security or the [dependent resources](#) of your AI hub? [Go to Azure Portal](#)

AI hub name *

Azure subscription * ⓘ

[Create new subscription](#)

Resource group *

[Create new Resource group](#)

Location *

[Help me choose](#)

Azure OpenAI *

[Create new Azure OpenAI](#)

Azure AI Search (Cognitive Search)

[Create new Azure AI Search](#)[Back](#)[Next](#)[Create an AI project](#)[Cancel](#)

Continue to the final page

Getting started

- ✓ Project details
- ✓ Create an AI hub
- 3 Review and finish

Review and finish

The following resources will be created for you, along with required dependencies. The creation of the first resource and project may take a few minutes to complete. [Learn more about AI resources and dependencies](#).

Resource	Type
🕒 openaicourse-david	AI project ⓘ
🕒 aai-openaicoursedavid-dev-aue	AI hub ⓘ
🕒 ai-aai-openaicoursedavid-dev-aue	Azure OpenAI ⓘ
🕒 staaipenaic	Storage account ⓘ
🕒 kv-aaiopena	Key vault ⓘ
🕒 appi-aaiopenaicsourcedaviddevaue	Application insights ⓘ
🕒 apws-aaiopenaicsourcedaviddevaue	Log Analytics workspace ⓘ

🕒 Creating resources...

Create an AI project

Cancel

2. Wait for deployment to complete, this will take a few minutes.

Checkpoint: Once the project is created, let the instructor know.

Navigate to Azure Portal <https://portal.azure.com/>.

You will see the underlined services created in your resource group.

Azure services



Create a resource



Azure AI Studio



Quickstart Center



Virtual machines



App Services



Storage accounts



SQL databases



Azure Cosmos DB



Kubernetes services



More services

Resources

Recent Favorite

Name

Type

Last Viewed



No resources have been viewed recently

View all resources

Click View All Resources.

Home >

All resources

Actionable Data Analytics (actionabledataanalytics.onmicrosoft.com)

+ Create Manage view Refresh Export to CSV Open query Assign tags Delete

Filter for any field... Subscription equals all Resource group equals all Type equals all Location equals all Add filter

0 Recommendations 0 Unsecure resources No grouping L

<input type="checkbox"/> Name ↑↓	Type ↑↓	Resource group ↑↓	Location ↑↓	Subscription
<input type="checkbox"/> aai-openaiaacoursedavid-dev-aue	Azure AI	rg-course-openai-aue-dev-000	Australia East	R&D
<input type="checkbox"/> aai-openaiaacoursedavid-dev-aue-aiservices	Azure AI service	rg-course-openai-aue-dev-000	Australia East	R&D
<input type="checkbox"/> appi-aaiopenaiaacoursedaviddevaue248421842096	Application Insights	rg-course-openai-aue-dev-000	East US	R&D
<input type="checkbox"/> appi-aaiopenaiaacoursedaviddevaue929518886256	Application Insights	rg-course-openai-aue-dev-000	East US	R&D
<input type="checkbox"/> Application Insights Smart Detection	Action group	rg-course-openai-aue-dev-000	Global	R&D
<input type="checkbox"/> apws-aaiopenaiaacoursedaviddevaue038109859165	Log Analytics workspace	rg-course-openai-aue-dev-000	East US	R&D
<input type="checkbox"/> apws-aaiopenaiaacoursedaviddevaue513388315843	Log Analytics workspace	rg-course-openai-aue-dev-000	East US	R&D
<input type="checkbox"/> apws-aaiopenaiaacoursedaviddevaue533759494061	Log Analytics workspace	rg-course-openai-aue-dev-000	East US	R&D
<input type="checkbox"/> craaiopenaiaacoursedaviddevaue037093190909	Container registry	ra-course-openai-aue-dev-000	Australia East	R&D

< Previous Page 1 of 1 Next > Showing 1 to 21 of 21 records.

Azure AI Portal has created more than 5 services for you.

Note: Another way to create the Azure AI Service is from the Azure Portal. This is the recommended approach for enterprise deployment as it offers more options in regards to networking and security.

Example creating service in Azure Portal

Note: You don't have to create another service and this chapter is only for informational purposes.

The following example shows how to create the service in the Azure Portal.

Microsoft Azure

azure ai studio

Azure services

Create a resource

More services

Resources

Recent Favorite

Name

All Services (99+) Marketplace (6) Documentation (99+) Micros

Resource Groups (0)

Services

Azure AI Studio

Azure Cosmos DB

Azure Database for MySQL servers

Azure AI services

Azure AI services

Marketplace

Documentation

Microsoft Entra ID

Searching all subscriptions.

Azure AI services

Azure AI Video Inc

Azure AI services r

Azure OpenAI

Click create.

Home >

Azure AI Studio

Actionable Data Analytics (actionabledataanalytics.onmicrosoft.com) | PREVIEW

+ New Azure AI Manage view Refresh Export to CSV Open query Assign tags

Filter for any field...

Subscription equals all

Type equals all

Resource group equals all

Locatio

Showing 0 to 0 of 0 records.

Name ↑↓

Resource group ↑↓

Type ↑↓



No Azure AI Studio to display

Configure all the options.

[Home](#) > [Azure AI Studio](#) >

Azure AI

Create an Azure AI resource

[Basics](#) [Resources](#) [Networking](#) [Encryption](#) [Identity](#) [Tags](#) [Review + create](#)

Organization

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.


Subscription * ⓘ Resource group * ⓘ [Create new](#)Region * ⓘ

Azure AI details

Name * ⓘ Friendly name Default project resource group ⓘ [Review + create](#)[< Previous](#)[Next : Resources](#)

Manage Section

You will be able to manage all the resources.

 Azure AI Studio Preview | [Supplemental Preview Terms apply](#)

[Home](#) [Explore](#) [Build](#) [Manage](#)

[Your resources](#)

[Quota](#)

New Azure AI resource

Refresh

View options

Search

Resource name	Resource group	Region	Subscription
aai-openaiaoursedavid-dev-aue	rg-course-openai-aue-dev-000	australiaeast	R&D

Click on the previously created project.

The screenshot shows the 'Overview' page in Azure AI Studio. The left sidebar contains a menu with 'Details' (selected), 'Permissions', 'Compute instances', 'Connections', 'Policies', and 'Billing'. The main content area is titled 'Overview' and contains three sections:

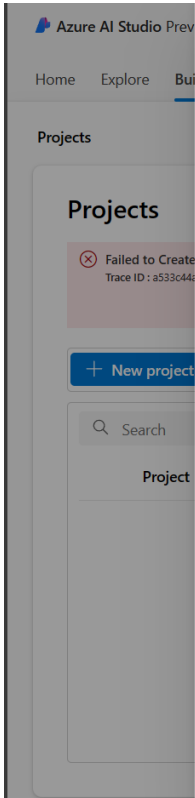
- Projects (1)**: A table with columns 'Project' and 'Created on'. It lists one project: 'openaicourse-davida' created on 'Nov 18, 2023 2:58 PM'. A 'View all' link is present.
- Connections (4)**: A table with columns 'Name' and 'Service'. It lists four connections: 'Default_AzureOpenAI' (Azure OpenAI), 'Default_AzureAIContentSafety' (CognitiveService), 'openaicourse-davida/workspaceblobstore' (Azure Blob Storage), and 'openaicourse-davida/workspaceartifactstore' (Azure Blob Storage). A 'View all' link is present.
- Resource Configuration**: A section with links to 'View in the Azure Portal'. It includes:
 - Subscription**: R&D (with external link and icon).
 - Resource Group**: rg-course-openai-aue-dev-000 (with external link and icon).
 - Storage account**: staaioopenaic003217505424 (with external link and icon).
 - Permissions**: 0 (with 'View all' link).
 - Location**: australiaeast.
 - Public network access**: Enabled.

1. **Details:** High-level overview of your different projects, connections and resources.
2. **Permissions:** Access Control List for managing resources. To be able to grant access, you will have to be an owner.
3. **Compute Instances:** View and manage computes for your Azure AI resource. Create computes, delete computes, and review all compute resources you have in one place.
4. **Connections:** You can view all Connections in your Azure AI resource by their Name, Authentication method,
5. **Policies:** View and configure policies for your Azure AI resource. See all the policies you have in one place. Policies are applied across all Projects
6. **Billing:** Information related to the on-going cost of the services.

Common Errors

Sometimes, the subscription needs some resource providers to be registered, this can be done by an admin at the Subscription level in the Azure portal.

Error:



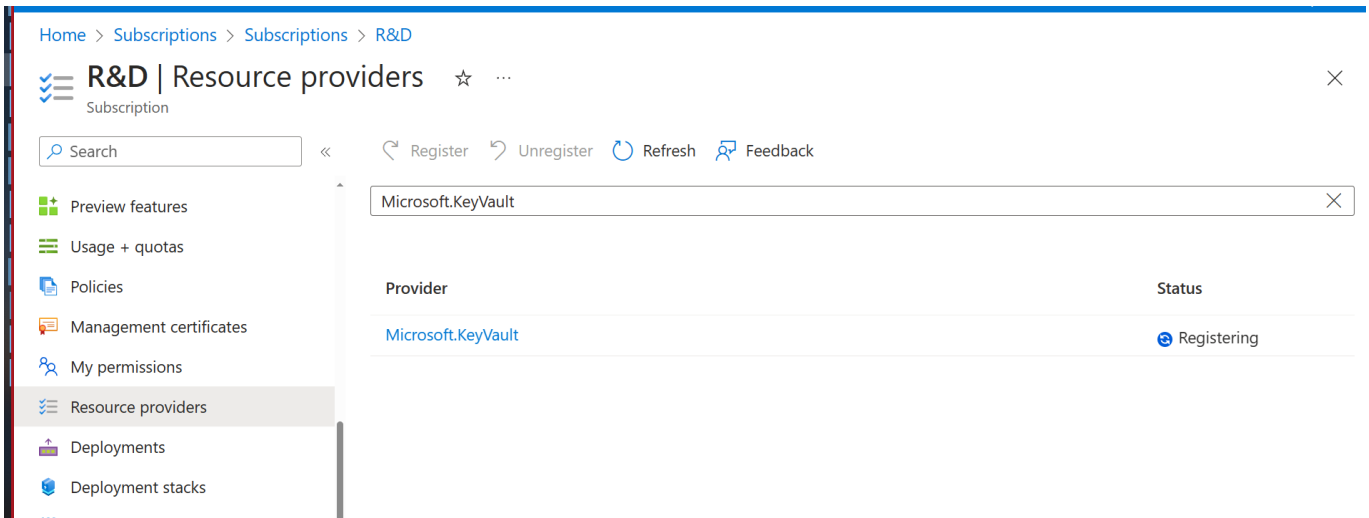
Failed to Create

At least one resource deployment operation failed. Please list deployment operations for details. Please see <https://aka.ms/arm-deployment-operations> for usage details.

```
{
  "code": "MissingSubscriptionRegistration",
  "message": "The subscription is not registered to use namespace 'Microsoft.ContainerRegistry'. See https://aka.ms/rps-not-found for how to register subscriptions.",
  "details": [
    {
      "code": "MissingSubscriptionRegistration",
      "target": "Microsoft.ContainerRegistry",
      "message": "The subscription is not registered to use namespace 'Microsoft.ContainerRegistry'. See https://aka.ms/rps-not-found for how to register subscriptions."
    }
  ]
}
{
  "code": "MissingSubscriptionRegistration",
  "message": "The subscription is not registered to use namespace 'Microsoft.KeyVault'. See https://aka.ms/rps-not-found for how to register subscriptions.",
  "details": [
    {
      "code": "MissingSubscriptionRegistration",
      "target": "Microsoft.KeyVault",
      "message": "The subscription is not registered to use namespace 'Microsoft.KeyVault'. See https://aka.ms/rps-not-found for how to register subscriptions."
    }
  ]
}
{
  "code": "MissingSubscriptionRegistration",
  "message": "The subscription is not registered to use namespace 'Microsoft.Operationallnsights'. See https://aka.ms/rps-not-found for how to register subscriptions.",
  "details": [
    {
      "code": "MissingSubscriptionRegistration",
      "target": "Microsoft.Operationallnsights",
      "message": "The subscription is not registered to use namespace 'Microsoft.Operationallnsights'. See https://aka.ms/rps-not-found for how to register subscriptions."
    }
  ]
}
```

Ok Cancel

Registering providers in Azure:



Home > Subscriptions > Subscriptions > R&D

R&D | Resource providers ☆ ...

Subscription

Search Register Unregister Refresh Feedback

Microsoft.KeyVault

Provider	Status
Microsoft.KeyVault	Registering